

ABSTRACT OF THE DISCLOSURE

5 The present invention provides methods and systems that generate symbol delay times. By receiving a communication signal using a plurality of antennas, a set of respective communication channels can be characterized. The characterized channels can be then used to determine sets of forward-time delays and time-reverse delays using a minimum-mean-square-error technique. By selecting the set of delays that can provide a lower mean-square-error in an equalizer, symbol estimation can be improved as compared to a system that only estimates delays in a single temporal direction.